

## **Backrest Assembly**

### **Background of the Invention**

#### **1. Field of the Invention**

The present invention relates to a backrest assembly. In particular, the  
5 present invention relates to a backrest assembly with a mesh for ventilation  
purposes.

#### **2. Description of the Related Art**

Fig. 6 of the drawings illustrates a conventional chair backrest including a  
substantially rectangular frame 1' and a mesh 2' wrapped around the frame 1'.  
10 The frame 1' is made of metal for supporting the weight of the user lying in the  
chair. The mesh 2' provides a ventilation effect for the back of the user lying in  
the chair. However, the frame 1' can be viewed through the mesh 2' and thus fails  
to provide an aesthetically pleasing appearance. Further, the frame 1' and the  
mesh 2' are fixed and thus could not provide assembling diversity.

#### **Summary of the Invention**

15 An object of the present invention is to provide a backrest with improved  
assembling diversity.

Another object of the present invention is to provide a backrest with  
improved aesthetically pleasing appearance.

20 A backrest in accordance with the present invention includes an endless  
main frame having a groove defined in a side thereof and extending along an  
entire length thereof. The groove is delimited by a bottom wall and an inner  
peripheral wall having an endless end face. A mesh is fixed to the endless end  
face of the inner peripheral wall delimiting the groove. A decorative frame is  
25 mounted to the side of the endless main frame and covers the groove and the

endless end face of the main frame. A covering member covers the decorative frame. An aesthetically pleasing appearance is thus provided. Further, the decoration effect can be improved by the decorative frame and the covering member.

5           In an embodiment of the invention, the bottom wall delimiting the groove has a plurality of fixing holes defined therein. The decorative frame has a plurality of holes. A plurality of fasteners respectively extend through the holes of the decorative frame and the fixing holes of the bottom wall delimiting the groove.

10           Other objects, advantages, and novel features of the invention will become more apparent from the following detailed description when taken in conjunction with the accompanying drawings.

#### **Brief Description of the Drawings**

Fig. 1 is an exploded perspective view of a backrest in accordance with  
15 the present invention.

Fig. 2 is an elevational view of a semi-product of the backrest in accordance with the present invention.

Fig. 3 is a sectional view, in an enlarged scale, of a portion of the backrest in accordance with the present invention.

20           Fig. 4 is an elevational view of the backrest in accordance with the present invention after assembly.

Fig. 5 is a sectional view of the backrest in Fig. 4.

Fig. 6 is a perspective view of a conventional backrest.

#### **Detailed Description of the Preferred Embodiment**

25           Fig. 1 is an exploded perspective view of a backrest in accordance with the present invention. Fig. 2 is an elevational view of a semi-product of the

backrest in accordance with the present invention. Fig. 3 is a sectional view, in an enlarged scale, of a portion of the backrest in accordance with the present invention. Fig. 4 is an elevational view of the backrest in accordance with the present invention after assembly. Fig. 5 is a sectional view of the backrest in Fig.

5 4.

The backrest in accordance with the present invention generally comprises a main frame 1, a mesh 2, a decorative frame 3, and a covering member 4. The main frame 1 is an endless frame (e.g., rectangular, circular, etc.) of proper strength. The main frame 1 includes a channel or groove 111 defined in  
10 a side thereof and extending along the entire length of the endless frame. A bottom wall delimiting the groove 111 has a plurality of fixing holes 12 defined therein. The groove 111 is also delimited by an inner peripheral wall having an endless end face 13. The endless end face 13 is thick enough to receive a fastener such as a nail.

15 Referring to Fig. 2, the mesh 2 is fixed by fasteners 21 (such as nails) to the endless end face 13 of the inner peripheral wall delimiting the groove 11. The decorative frame 3 is mounted to the side of the main frame 1 to cover the groove 11 and the endless end face 13 of the main frame 1, as shown in Fig. 3. The decorative frame 3 includes a plurality of holes 31, and fasteners 14 (such as bolts)  
20 are extended through the holes 31 of the decorative frame 3 and the fixing holes 12 of the main frame 1. The covering member 4 covers or envelopes the decorative frame 3.

As illustrated in Figs. 3 through 5, in assembly, the covering member 4 and the decorative frame 3 are assembled together, and the decorative frame 3 is  
25 then mounted to the main frame 1 to cover the joint area between the main frame 1 and the mesh 2. An aesthetically pleasing appearance is thus provided. Further,

the decoration effect can be improved by the decorative frame 3 and the covering member 4.

The shape of the decorative frame 3 and the pattern on an outer surface of the covering member 4 can be altered according to need. Thus, the assembling  
5 diversity of the backrest is improved.

Although the invention has been explained in relation to its preferred embodiment, it is to be understood that many other possible modifications and variations can be made without departing from the scope of the invention as hereinafter claimed.